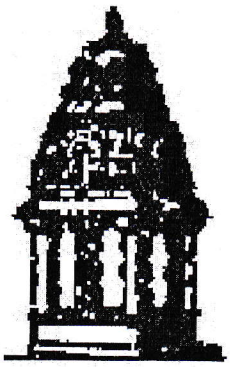
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst.Executive Engineer,
Shettyhalli Sub Division,

Name of Work :- : Improvements UGD Line in Ward No.13 Mallasandra .

Est Cost:50.00Lakhs

BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Improvements of UGD lines in mallasandra ward no.13 in shettyhalli sub division

Est Cost Rs :50 Lakhs							H/A :14th Finance		
Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations & disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No. 138, Item No.18.47,PW,P & IWTD SR 2016-17)								
	Basic Rate=		781.00						
	Add A.W.6%=		46.86						
	Total=		827.86						
	For cement concrete		1.00	736.00	0.90	0.25	165.60		
		Cum					165.60	827.86	137093.62
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5(Page No.5 , Item No.2.4,PW,P & IWTD SR 2016-17)								
	Basic Rate=		283.00						
	Add A.W.6%=		16.98						
	Total=		299.98						
	For CC Road		1.00	736.00	0.90	1.40	927.36		
	For Asphalting Road		1.00	200.00	0.90	1.40	252.00		
	Man hole		64.00	0.785	1.85	1.65	153.36		
		cum					1332.72	299.98	399788.63
3	Stone dust / Grit Page No.II PW,P&IWTD SR 2016-17								
	Basic Rate=		800.00						
	Add A.W.6%=		48.00						
	Total=		848.00						
	CC Road Cutting portion		1.00	736.00	0.90	0.40	264.96		
	Asphalting Road Cutting Portion		1.00	200.00	0.90	0.40	72.00		
		Cum					336.96	848.00	285742.08
4	KSRB 12.-1.1 : Providing and laying in position to required level or slope 230mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications.Specification No. KBS 12.2.5/12.7 (Page No.70, Item No. 11.4)PW,P&IWTD SR 2016-17								
	Basic Rate=		523.00						
	Add A.W.6%=		31.38						
	Total=		554.38						
	CC Road Cutting portion		1.00	556.00			556.00		
	Asphalting Road Cutting Portion		1.00	200.00			200.00		
							756.00	554.38	419111.28

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
5	Providing & laying reinforced cement concrete pipe NP2 for culverts including pointing ends & fixing collars with cement mortar 1:2 includingcost of all materials,labour,curing complete as per specifications. No.KSRB 1000,2300MOST Specification No.1000 / 2300 300mm dia(Page No.253, Item No. 34.7.3)PW, P&I WTD SR 2016-17								
	Basic Rate =		1108.00						
	Add A.W.6%=		66.48						
	Total =		1174.48						
	CC Road Cutting portion		1.00	180.00			180.00		
		Rmt					180.00	1174.48	211406.40
6	Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications (Page No.6 Item No. 2.10)PW,P&IWTD SR 2016-17								
	Basic Rate =		127.00						
	Add A.W.6%=		7.62						
	Total =		134.62						
	UGD Line of erath 92% work qty 2	Cum					1226.10	134.62	165057.61
7	KSRB 12-5.3 : Constructing brick masonry circular type manhole 1.22 m internal dia at bottom 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Specification No. KBS 12.4(Page No72, Item.11.39 PW,P&IWTD SR 2016-17								
	Basic Rate =		26124.00						
	Add A.W.6%=		1567.44						
	Total =		27691.44						
	Man hole		64.00				64.00		
		No's					64.00	27691.44	1772252
8	KSRRB M400-14.1. Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3- wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification. Type B 11.2mm for grading A. By mannual means. MORTH Specification No. 404 (Page No.157, Item No.20.14.3,PW,P & IWTD SR 2016-17)								
	Basic Rate=		1771.00						
	Add A.W.6%=		106.26						
	Total=		1877.26						
	For cement concrete		1.00	736.00	0.90	0.15	99.36		
		cum					99.36	1877.26	186524.55

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
9	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(Page No. 12, Item No.4.3,PW,P & IWTD SR 2016-17)								
	Basic Rate=		4867.00						
	Add A.W.6%=		292.02						
	Total=		5159.02						
	For cement concrete		1.00	736.00	0.90	0.10	66.24		
		cum					66.24	5159.02	341733.48
10	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)(Page No. 18.tem No.4.49.1,PW,P & IWTD SR 2016-17)								
	Basic Rate=		5879.00						
	Add A.W.6%=		352.74						
	Total=		6231.74						
	For cement concrete		1.00	736.00	0.90	0.10	66.24		
		cum					66.24	6231.74	412790.46
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMCin mechanical mix plant carriage of mixed materials by tipper to site,laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No.158,Iteam No.20.18 PW,P& IWTD SR 2016-17								
	Basic Rate=		1668.00						
	Add A.W.6%=		100.08						
	Total=		1768.08						
	For Asphalting Road		1.00	200.00	0.90	0.15	27.00		
		cum					27.00	1768.08	47738.16
12	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular of base including clearing of road surface and spraying primer at the of 0.6 kg/sqm using mechanical means complete as per specifications with all leads lifts Etc, complete as per the direction of Engineer-in-Charges (Page No.161 Iteam No.21.6 PW,P&IWTD SR 2016-17)								
	Basic Rate=		26.00						
	Add A.W.6%=		1.56						
	Total=		27.56						
			1.00	200.00	0.90		180.00		
		Sqm					180.00	27.56	4960.80
13	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mixplant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour,do - using 100/120 TPH capacity H.M.P. with sensor paver Gr-II cum(50 mm to 75 mm) with 3.4% VG-30 Bitumen HOM ofmachineries complete as per specifications Page No.162 Iteam No.21.11.2 PW,P&IWTD SR 2016-17)								

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
	Basic Rate=		5306.00						
	Add A.W.6%=		318.36						
	Total=		5624.36						
			1.00	200.00	0.90	0.05	9.00		
		cum					9.00	5624.36	50619.24
14	Providing and applying tack coat 80/100 grade bitumen (VG 10) on the prepared black topped surface at 2.5 kg per 10sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material HOM mechanical means complete as per specifications with all leads lifts Etc, complete as per the direction of Engineer-in-Charges (Page No.161 Iteam No.21.7 PW,P&IWTD SR 2016-17)								
	Basic Rate=		11.00						
	Add A.W.6%=		0.66						
	Total=		11.66						
			1.00	200.00	0.90		180.00		
		Sqm					180.00	11.66	2098.80
15	KSRRB M500-19. Providing and laying bituminous concrete with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9complete in all respects complete as per specifications.do - using 100/120 TPH capacity H.M.P. with sonsor paver Gr-II cum(30 mm to 45 mm) with 5.4% VG-30 Bitumen MOFtTH Specification No. 509 (Page No.165 Iteam No.21.22.6 PW,P&IWTD SR 2016-17)								
	Basic Rate=		6683.00						
	Add A.W.6%=		400.98						
	Total=		7083.98						
			1	200.00	0.90	0.04	7.20		
		Cum					7.20	7083.98	51004.66
16	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer-in-charge.								
	For 10 k.m	10x1.28x2=			25.60				
	Loading & unloading				62.20				
	Total=				87.80				
	Add A.W.6%=				5.27				
	total=				93.07				
	Qty same as item no.1	cum					165.60	93.07	15412.06
								Sub Total	4503333.98
17	KRIDL Charges-(3%+ labour cess-1% + Applicable GST)=11%								495366.74
18	Miscellaneous and other unforseen charges								1299.28

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
							Total		5000000.00

(Rupees Fifty Lakhs Only)

CERTIFICATE

1) Certified that I have inspected the spot & Prepared the Estimate according to the necessity & site conditions.
2) Certified that the work is not split up.
3) Certified that the estimate is prepared on the basis of CSR of PW,P & IWTD, Bangalore Circle, Bangalore for the year
4) Certified that Adequate & necessary provisions have been made in the estimate.
5) Certified that the above area comes under BBMP limits..

Asst. Engineer
Ward No-13

Asst. Executive Engineer
Shettyhalli Sub Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ. EE/DD/As/610/17-18 ದಿನಾಂಕ : 7/12/17

ರೂ. Rs. Fifty lakhs only/-

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/TS/303/E718 ದಿನಾಂಕ : 02/12/2017

ರೂ. Rs. 50.00 lakh only/-

Rs. Fifty lakh only/-

[redacted]

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
[redacted] ವಲಯ, ಬೆಂಗಳೂರು